SITARA- 8

Radio Remote Controls

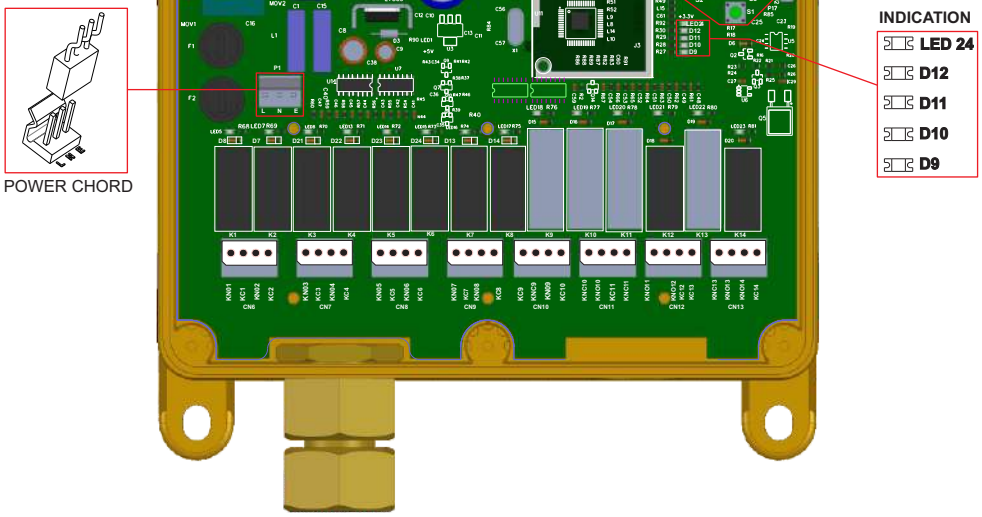
SPEED-O-CONTROLS PVT. LTD.

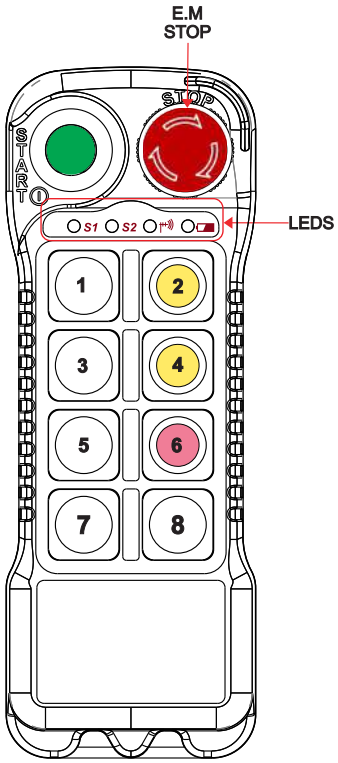
RADIO REMOTE CONTROLS

Please contact our service Department on - 02242469730/31 for any assistance for trouble shooting/Installation guidance.

Receiver

WARNING! The receiver must NOT be opened by any other than a qualified installaer
Make sure to turn the electricity off before opening the receiver.





TRANSMITTER

Technical Data

	RECEIVER	TRANSMITTER
RF Sensitivity	-117dBm at 0.6kBaud	-
RF Power Output	10 mW	-
Number of Relays	12 + 2 (Start/Alarm)	-
Relays	Resistive load: 5A at 250VAC	-
Power Requirements	110 VAC / 230 VAC	-
Fastening	By means of Nuts & Bolts	-
Current Consumption	-	18 mA (Unidirectional)
Standby Consumption	-	1 mA
Battery Capacity & Type	-	2 nos, AA size Alkaline, 3.0V
Dimensions (mm)	186 (H) x 186 (B) x 83 (W)	69 (W) X 34 (B) x 191(H)
Weight	Approx 0.8 Kg	500 gms (without battery)
Modulation	Frequency Modulation	
Operating Freq.	433-434 MHz	
Channel Spacing	25 KHz	
Operating Temp.	-20 C to +70 C	
Operating Range	100 meters	
Protection Rating	IP 65	

Pairing RX TO TX

STEP	ACTION	INDICATION
STEP 1: Transmitter into pairing mode	• Remove battery & Press EM STOP • Press (2)+(4) Push Buttons on transmitter simultaneously & insert battery	• The transmitter LEDs glow sequentially 3 times. S1→S2→→ • Tx LEDs S1 ON S2 blinking
STEP 2: Receiver into pairing mode.	• Switch off receiver Power / Press Reset (remove power chord). OR • Keep S3 pressed & switch on receiver power / release reset	• D 9 Red LED glows constantly. • D 10 Green LED starts blinking fast. • Wait until D 10 glows constantly.
STEP 3: Transmitter Confirmation	• When D 10 glows constantly, press 6 button in transmitter & release the switch S3 in receiver.	• Tx LEDs S1 ON , blink continuously • Rx LED D9 shall stop blinking. • Rx LED D10 shall Glow constantly • Rx LED D12 shall Blink fast
STEP 4: Receiver Confirmation	• Release Transmitter 6 Button. • Press Receiver S2 Button for confirmation.	• Tx LEDs S1 ON S2 blinks twice → blinks twice • Pairing is complete.
STEP 5: Reset the system.	• Remove Transmitter Battery and Reinsert • Remove Receiver Power and reconnect.	• Tx battery sequence should start. • Rx D 10 should glow constantly and D 12 should blink.

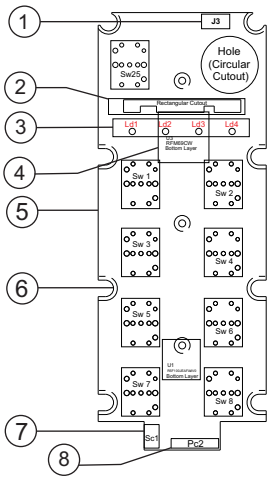
SPEED-O-CONTROLS PVT. LTD.
RADIO REMOTE CONTROLS

SITARA-8 User Manual

The **SITARA** series transmitter comes in 3 versions, featuring 6, 8 or 10 pushbuttons. The transmitter features 2-step pushbuttons.

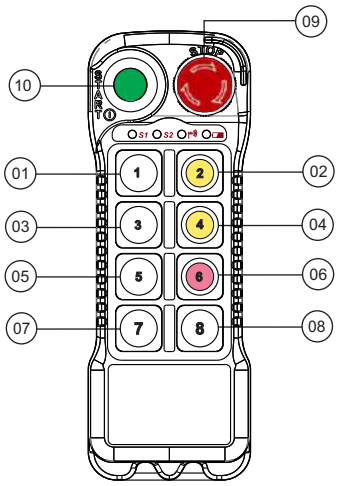
Both steps of each pushbutton can operate different the speeds of a motor,
Step 1 : Slow,
Step 2: fast.

Changing the batteries
Use Duracell Alkaline 'AA' batteries
(1.5v x 2, 1500mAH)
OR
Use NiMH Rechargeable 'AA' batteries
(1.2V x 2, 2300mAH)



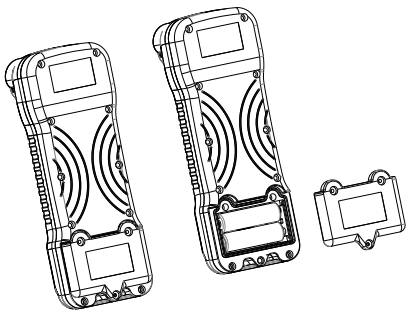
Transmitter, PCB board

(1) Battery connector
(2) Antena
(3) LED Indications
  (a) Low Battery
  (b) Error
  (C) Status
(4) Wireless RF Module
(5) PCB board
(6) Fixed Holes
(7) Em Stop Connector
(8) Communication terminal



Transmitter, Front view

(01) Button-01
(02) Button-02
(03) Button-03
(04) Button-04
(05) Button-05
(06) Button-06
(07) Button-07
(08) Button-08
(09) Button-09
E.M STOP
(10) Button-10
(Start / Horn)



Multi-control system

use up to 256 transmitters with 1 receiver

START / Horn switch

The SITARA series transmitter has an Start / Horn switch on the bottom-right.
The Start / Horn switch has 2 mode:
1. Press to start
2. Press for horn while operating

Start the transmitter in operating mode

1. Turn to release the EM STOP button.
2. Press "START"button .

Range Limiting

The Range limiting function allows to reduce the maximum distance within which the transmitting unit must remain to start up the system and to optionally limit the radio remote control working range. This function is widely used in automobile factories where many stations in one area.

Procedure is as follows:-

To Change the Radio power
1. Press button 1 & button 5 and insert the battery. On this GREEN led blink 5 times.
2. To set Radio Power Press button 2. On this RED led blink 5 times.
3. To set the Radio Power 28, we need to press button 3 two times & button 4 eight times.
4. To apply the setting press button 6. This will set your Radio Power on respective value.
5. To set range of 25-30 meter set power 18, for 50 meter range set power 21, range can be set as per customer needs.(max. power 31).

To Display the Radio Power

1. Press button 2 & button 6 and insert the battery. On this RED led blink 5 times
2. To display Radio Power press button 2.
3. This will display the value of the Radio Power by blinking led. (e.g. if Radio Power is set to the value 21, then the GREEN led blink 2 times & RED led blink once)

Failure Analysis and Solution

Description	LED Signal	Failure Analysis	Solution
LED Fast blinking on press of Start Button Transmitter has started transmitting correctly.		- No power - Transmitter Start button Failure	- Replace new batteries - Check for Start operation
S1 , S2 , , blink in sequence 3 times. Battery insert sequence. Battery detected correctly	S1→S2→→ S1→S2→→ S1→S2→→	- Stain on the battery springs. - Low battery. - Damaged batteries.	- Clean the stain on battery springs. - Use Charged Batteries / New Batteries
S1 , S2 blink once. Radio Module is Disconnected	S1→S2	Radio Module is not connected	Insert the radio module correctly.
, blink continuously Low Battery Indication	→	LOW Battery Indication	Use Charged Batteries/ New Batteries
S1 LED ON when START is pressed START button is pressed to begin communication	S1	Communication unsuccessful	- Release Em Stop - Release any push button other than START.
S1 , S2 ON continuously without pressing any button	S1 & S2	Transmitter has entered in Programming mode	Remove and insert battery again to reset the transmitter
S1 ON continuously & S2 blinking continuously	S1 ON S2 blinking	Transmitter has entered Pairing mode	For Pairing Procedure please refer Page No.1

Note:- 1 - Use only AA Duracell Batteries for Better Performance.
2 - For continue duty we can supply rechargeable batteries with charger.

Please contact our service Department on - 02242469730/31 for any assistance for trouble shooting/Installation guidance.